CLAIMS

What is claimed is:

- 1. A magnetic recording medium comprising:
 - a non-magnetic support and, in order thereon
- a radiation-cured layer formed by curing a layer containing a radiation curing compound by exposure to radiation;
- a middle layer having a non-magnetic powder dispersed in a binder (1), the middle layer being provided as necessary; and
- at least one magnetic layer having a ferromagnetic powder dispersed in a binder (2);

the radiation curing compound having a hydroxyl group and a radiation curing functional group in the molecule; and

the magnetic layer having on the surface thereof a number of micro projections having a height of 10 to 20 nm measured by atomic force microscopy (AFM) of 5 to 1,000/100 $(\mu m)^2$.

- 2. The magnetic recording medium according to Claim 1, wherein the medium has at least one middle layer between the radiation-cured layer and the magnetic layer.
- 3. The magnetic recording medium according to Claim 1, wherein the radiation curing compound is a radiation curing compound (1) having 1 to 3 hydroxyl groups and 2 to 5 acryloyl groups or methacryloyl groups in the molecule.
- 4. The magnetic recording medium according to Claim 3, wherein the radiation curing compound comprises the radiation curing compound (1) and a radiation curing compound (2) having a cyclic structure, an ether group, and two or more radiation curing functional groups in the molecule.
- 5. The magnetic recording medium according to Claim 4, wherein the radiation curing compound (2) has an acryloyl group as a radiation curing functional

group.

- 6. The magnetic recording medium according to Claim 4, wherein the medium contains 10 wt % to 80 wt % of the radiation curing compound (2) relative to 100 wt % of the radiation curing compound (1).
- 7. The magnetic recording medium according to Claim 1, wherein the ferromagnetic powder is a ferromagnetic metal powder.
- 8. The magnetic recording medium according to Claim 1, wherein the ferromagnetic powder is a ferromagnetic hexagonal ferrite powder.
- 9. The magnetic recording medium according to Claim 1, wherein the binder (1) and/or the binder (2) comprise a polyurethane resin.
- 10. The magnetic recording medium according to Claim 1, wherein the radiation curing functional group is an acryloyl group and/or a methacryloyl group.
- 11. The magnetic recording medium according to Claim 1, wherein the radiation-cured layer and/or the middle layer contain carbon black.
- 12. The magnetic recording medium according to Claim 1, wherein the radiation-cured layer has a thickness of 0.1 to 1.0 μ m.
- 13. The magnetic recording medium according to Claim 1, wherein the magnetic layer has a thickness of 0.05 to 1.0 μm .
- 14. The magnetic recording medium according to Claim 1, wherein the middle layer has a thickness of 1.0 to 2.0 μm .